

Helmut Clemens

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404
papers

11,078
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412
ext. papers

12,455
ext. citations

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avg. IF

6.54
L-index

#	Paper	IF	Citations
404	Microstructural design of hard coatings. <i>Progress in Materials Science</i> , 2006 , 51, 1032-1114	42.2	682
403	Mechanical properties, microstructure and thermal stability of a nanocrystalline CoCrFeMnNi high-entropy alloy after severe plastic deformation. <i>Acta Materialia</i> , 2015 , 96, 258-268	8.4	678
402	Design, Processing, Microstructure, Properties, and Applications of Advanced Intermetallic TiAl Alloys. <i>Advanced Engineering Materials</i> , 2013 , 15, 191-215	3.5	610
401	Processing and Applications of Intermetallic TiAl-Based Alloys. <i>Advanced Engineering Materials</i> , 2000 , 2, 551-570	3.5	478
400	Design of Novel Solidifying TiAl Alloys with Adjustable β 2-Phase Fraction and Excellent Hot-Workability. <i>Advanced Engineering Materials</i> , 2008 , 10, 707-713	3.5	304
399	Microstructural design and mechanical properties of a cast and heat-treated intermetallic multi-phase TiAl based alloy. <i>Intermetallics</i> , 2014 , 44, 128-140	3.5	240
398	Modeling concepts for intermetallic titanium aluminides. <i>Progress in Materials Science</i> , 2016 , 81, 55-124	42.2	208
397	High-Energy X-Rays: A tool for Advanced Bulk Investigations in Materials Science and Physics. <i>Textures and Microstructures</i> , 2003 , 35, 219-252		160
396	Powder Metallurgical Processing of Intermetallic Gamma Titanium Aluminides. <i>Advanced Engineering Materials</i> , 2004 , 6, 23-38	3.5	157
395	In and ex situ investigations of the β phase in a Nb and Mo containing TiAl based alloy. <i>Intermetallics</i> , 2008 , 16, 827-833	3.5	141
394	Sheet gamma TiAl: Status and opportunities. <i>Jom</i> , 2004 , 56, 42-45	2.1	129
393	Intermetallic titanium aluminides in aerospace applications Processing, microstructure and properties. <i>Materials at High Temperatures</i> , 2016 , 33, 560-570	1.1	128
392	Evolution of the β phase in a β stabilized multi-phase TiAl alloy and its effect on hardness. <i>Acta Materialia</i> , 2014 , 64, 241-252	8.4	120
391	Microstructure development and hardness of a powder metallurgical multi phase TiAl based alloy. <i>Intermetallics</i> , 2012 , 22, 231-240	3.5	115
390	Technology and mechanical properties of advanced TiAl based alloys. <i>International Journal of Materials Research</i> , 2009 , 100, 1021-1030	0.5	114
389	Effect of carbon addition on solidification behavior, phase evolution and creep properties of an intermetallic β stabilized TiAl based alloy. <i>Intermetallics</i> , 2014 , 46, 173-184	3.5	111
388	Light-Weight Intermetallic Titanium Aluminides Status of Research and Development. <i>Advanced Materials Research</i> , 2011 , 278, 551-556	0.5	105

387	Grain refinement in TiAl-based alloys by solid state phase transformations. <i>Intermetallics</i> , 2006 , 14, 1380-1385	3.5	104
386	Intermetallic Solidifying TiAl Based Alloys From Fundamental Research to Application . <i>Advanced Engineering Materials</i> , 2017 , 19, 1600735	3.5	99
385	Deformation mechanisms in TiAl intermetallics Experiments and modeling. <i>International Journal of Plasticity</i> , 2003 , 19, 281-321	7.6	99
384	A novel approach for site-specific atom probe specimen preparation by focused ion beam and transmission electron backscatter diffraction. <i>Ultramicroscopy</i> , 2014 , 144, 9-18	3.1	92
383	Hot-working behavior of an advanced intermetallic multi-phase TiAl based alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 614, 297-310	5.3	90
382	Carbon distribution in multi-phase TiAl based alloys and its influence on mechanical properties and phase formation. <i>Acta Materialia</i> , 2015 , 94, 205-213	8.4	86
381	Phase fractions, transition and ordering temperatures in TiAlNbMo alloys: An in- and ex-situ study. <i>Intermetallics</i> , 2010 , 18, 1544-1552	3.5	84
380	Microstructures and mechanical properties of a multi-phase Solidifying TiAl alloy densified by spark plasma sintering. <i>Acta Materialia</i> , 2014 , 73, 107-115	8.4	80
379	Electronic structure of PbTePb _{1-x} Sn _x Te Te superlattices. <i>Physical Review B</i> , 1984 , 30, 3394-3405	3.3	78
378	Creep behaviour and related high temperature microstructural stability of Ti ₆ Al ₄ Nb sheet material. <i>Intermetallics</i> , 2005 , 13, 515-524	3.5	75
377	Deformation behavior of differently processed Titanium aluminides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 153-162	5.3	75
376	Structural characterization and tensile properties of a high niobium containing gamma TiAl sheet obtained by powder metallurgical processing. <i>Intermetallics</i> , 2004 , 12, 275-280	3.5	75
375	The high temperature oxidation behaviour of high and low alloyed TiAl-based intermetallics. <i>Intermetallics</i> , 2002 , 10, 293-305	3.5	72
374	Recrystallization and phase transitions in a TiAl-based alloy as observed by ex situ and in situ high-energy X-ray diffraction. <i>Acta Materialia</i> , 2006 , 54, 3721-3735	8.4	71
373	In Situ Experiments with Synchrotron High-Energy X-Rays and Neutrons. <i>Advanced Engineering Materials</i> , 2011 , 13, 658-663	3.5	70
372	High carbon solubility in a TiAl-based Ti ₄₅ Al ₄₅ Nb _{0.5} C alloy and its effect on hardening. <i>Acta Materialia</i> , 2009 , 57, 1504-1511	8.4	66
371	Microstructural evolution of CrMn austenitic steels during cold work hardening. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 427, 246-254	5.3	66
370	Mechanical Size-Effects in Miniaturized and Bulk Materials. <i>Advanced Engineering Materials</i> , 2006 , 8, 1033-1045	3.5	64

369	High-temperature oxidation behavior of multi-phase Mo-containing TiAl-based alloys. <i>Intermetallics</i> , 2014 , 53, 45-55	3.5	61
368	Mechanical behavior and related microstructural aspects of a nano-lamellar TiAl alloy at elevated temperatures. <i>Acta Materialia</i> , 2017 , 128, 440-450	8.4	60
367	Silicon distribution and silicide precipitation during annealing in an advanced multi-phase TiAl based alloy. <i>Acta Materialia</i> , 2016 , 110, 236-245	8.4	60
366	Nanometer-scaled lamellar microstructures in Ti ₄₅ Al _{7.5} Nb _(0; 0.5) C alloys and their influence on hardness. <i>Intermetallics</i> , 2008 , 16, 868-875	3.5	58
365	Enhancement of creep properties and microstructural stability of intermetallic solidifying TiAl based alloys. <i>Intermetallics</i> , 2015 , 63, 19-26	3.5	57
364	Experimental studies and thermodynamic simulation of phase transformations in high Nb containing TiAl based alloys. <i>International Journal of Materials Research</i> , 2007 , 98, 1131-1137	0.5	56
363	Phase transformations in high niobium and carbon containing TiAl based alloys. <i>Intermetallics</i> , 2006 , 14, 1194-1198	3.5	56
362	Diffusion bonding of TiAl sheets. <i>Intermetallics</i> , 1999 , 7, 1025-1031	3.5	56
361	On the recrystallization behavior of technically pure molybdenum. <i>International Journal of Refractory Metals and Hard Materials</i> , 2010 , 28, 703-708	4.1	54
360	Effect of hot rolling and primary annealing on the microstructure and texture of a stabilized TiAl based alloy. <i>Acta Materialia</i> , 2017 , 126, 145-153	8.4	52
359	Self-Organized Nanostructures in Hard Ceramic Coatings. <i>Advanced Engineering Materials</i> , 2005 , 7, 1071-1082	3.982	52
358	Investigation of metal foam formation by microscopy and ultra small-angle neutron scattering. <i>Acta Materialia</i> , 2001 , 49, 3409-3420	8.4	52
357	Nanoindentation testing as a powerful screening tool for assessing phase stability of nanocrystalline high-entropy alloys. <i>Materials and Design</i> , 2017 , 115, 479-485	8.1	51
356	Diffusion bonding of intermetallic Ti-47Al-2Cr-0.2Si sheet material and mechanical properties of joints at room temperature and elevated temperatures. <i>Intermetallics</i> , 1997 , 5, 415-423	3.5	51
355	In situ study of dynamic recrystallization and hot deformation behavior of a multiphase titanium aluminide alloy. <i>Journal of Applied Physics</i> , 2009 , 106, 113526	2.5	50
354	Designed fully lamellar microstructures in a TiAl based alloy: adjustment and microstructural changes upon long-term isothermal exposure at 700 and 800°C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 124-129	5.3	48
353	In Situ Characterization of a Nb and Mo Containing TiAl Based Alloy Using Neutron Diffraction and High-Temperature Microscopy. <i>Advanced Engineering Materials</i> , 2009 , 11, 932-937	3.5	47
352	Microstructure and mechanical properties of Ti ₄₅ Al ₅ Nb + (0.5C) sheets. <i>Intermetallics</i> , 2008 , 16, 689-697	3.5	47

351	Characteristics of the tensile flow behavior of Ti-6Al-4Nb sheet material - Analysis of thermally activated processes of plastic deformation. <i>Intermetallics</i> , 2008 , 16, 717-726	3.5	47
350	Hot-wall epitaxy system for the growth of multilayer IV-VI compound heterostructures. <i>Review of Scientific Instruments</i> , 1983 , 54, 685-689	1.7	47
349	On the Formation of Ordered β phase in High Nb Containing β -TiAl Based Alloys. <i>Advanced Engineering Materials</i> , 2008 , 10, 929-934	3.5	45
348	Experimental and theoretical evidence of displacive martensite in an intermetallic Mo-containing β -TiAl based alloy. <i>Acta Materialia</i> , 2016 , 115, 242-249	8.4	44
347	In-situ study of the time-temperature-transformation behaviour of a multi-phase intermetallic β -stabilised TiAl alloy. <i>Intermetallics</i> , 2015 , 57, 17-24	3.5	43
346	Effect of microstructural instability on the creep resistance of an advanced intermetallic β -TiAl based alloy. <i>Intermetallics</i> , 2017 , 80, 1-9	3.5	43
345	Influence of reverted austenite on static and dynamic mechanical properties of a PH 13-8 Mo maraging steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010 , 527, 2065-2070	5.3	43
344	Optimizing the properties of TiAl sheet material for application in heat protection shields or propulsion systems. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1995 , 201, 182-193	5.3	43
343	Morphology change of retained austenite during austempering of carbide-free bainitic steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016 , 664, 236-246	5.3	41
342	Microstructure evolution and mechanical properties of an intermetallic Ti-43.5Al-4Nb-1Mo-0.1B alloy after ageing below the eutectoid temperature. <i>International Journal of Materials Research</i> , 2011 , 102, 703-708	0.5	41
341	Spinodal decomposition of cubic Ti _{1-x} Al _x N: Comparison between experiments and modeling. <i>International Journal of Materials Research</i> , 2007 , 98, 1054-1059	0.5	41
340	Comparison of NiAl precipitation in a medium carbon secondary hardening steel and C-free PH13-8 maraging steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 429, 96-106	5.3	41
339	Mechanical twins, their development and growth. <i>European Journal of Mechanics, A/Solids</i> , 2003 , 22, 709-726	3.7	41
338	Microstructural stability and creep behavior of a lamellar β -TiAl based alloy with extremely fine lamellar spacing. <i>Intermetallics</i> , 2002 , 10, 459-466	3.5	40
337	Preferential site occupancy of alloying elements in TiAl-based phases. <i>Journal of Applied Physics</i> , 2016 , 119, 205104	2.5	39
336	Metallurgical processing of titanium aluminides on industrial scale. <i>Intermetallics</i> , 2018 , 103, 12-22	3.5	39
335	The high-temperature oxidation behaviour of Ti-47Al-2Cr-0.2Si and Ti-48Al-2Cr-2Nb compared with Ti-48Al-2Cr. <i>Intermetallics</i> , 1997 , 5, 525-534	3.5	38
334	Effect of heat-treatments and hot-isostatic pressing on phase transformation and microstructure in a β -B2 containing β -TiAl based alloy. <i>Scripta Materialia</i> , 2000 , 42, 1065-1070	5.6	38

- 333 Advancement of Compositional and Microstructural Design of Intermetallic β TiAl Based Alloys Determined by Atom Probe Tomography. *Materials*, **2016**, 9, 3-5 38
- 332 β B2 Lamellar Domains in Rolled TiAl. *Scripta Materialia*, **1998**, 38, 1377-1382 5.6 37
- 331 A thermodynamical model for the nucleation of mechanical twins in TiAl. *Acta Materialia*, **2003**, 51, 1249-1260 3.5 37
- 330 The Characterisation of a Powder Metallurgically Manufactured TNM Titanium Aluminide Alloy Using Complimentary Quantitative Methods. *Praktische Metallographie/Practical Metallography*, **2011**, 48, 594-604 0.3 37
- 329 Fracture and R-curve behavior of an intermetallic β stabilized TiAl alloy with different nearly lamellar microstructures. *Intermetallics*, **2014**, 53, 1-9 3.5 36
- 328 An in-situ high-energy X-ray diffraction study on the hot-deformation behavior of β phase containing TiAl alloy. *Intermetallics*, **2013**, 39, 25-33 3.5 36
- 327 Evolution of microstructure and texture in Ti₆₀Al₄₀Nb sheet material during tensile flow at elevated temperatures. *Intermetallics*, **2010**, 18, 1046-1055 3.5 36
- 326 In situ high-energy X-ray diffraction study and quantitative phase analysis in the β phase field of titanium aluminides. *Scripta Materialia*, **2007**, 57, 1145-1148 5.6 36
- 325 Texture evolution of the β and the β' -phase during hot rolling of β TiAl based alloys. *Intermetallics*, **2006**, 14, 336-347 3.5 36
- 324 Structural characterization of β carbide-free β bainite in a Fe_{0.2}C_{0.5}Si_{0.5}Mn steel. *Materials Characterization*, **2015**, 102, 85-91 3.9 35
- 323 Tailoring microstructure and chemical composition of advanced β TiAl based alloys for improved creep resistance. *Intermetallics*, **2018**, 97, 27-33 3.5 35
- 322 High-temperature mechanical properties of hot isostatically pressed and forged gamma titanium aluminide alloy powder. *Intermetallics*, **2002**, 10, 511-517 3.5 35
- 321 Physics and applications of IV-VI compound quantum well and superlattice structures. *Semiconductor Science and Technology*, **1990**, 5, S122-S130 1.8 35
- 320 Small-angle neutron scattering analysis of the precipitation behaviour in a maraging steel. *Journal of Applied Crystallography*, **2003**, 36, 415-419 3.8 34
- 319 Characterization of the high temperature deformation behavior of two intermetallic TiAlMo alloys. *Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing*, **2015**, 648, 208-216 5.3 33
- 318 Phase transition and ordering behavior of ternary TiAlMo alloys using in-situ neutron diffraction. *International Journal of Materials Research*, **2011**, 102, 697-702 0.5 33
- 317 Grain boundary study of technically pure molybdenum by combining APT and TKD. *Ultramicroscopy*, **2015**, 159 Pt 2, 445-51 3.1 32
- 316 Grain boundary segregation engineering in as-sintered molybdenum for improved ductility. *Scripta Materialia*, **2018**, 156, 60-63 5.6 32

315	On grain boundary segregation in molybdenum materials. <i>Materials and Design</i> , 2017 , 135, 204-212	8.1	32
314	Insights into the deformation behavior of the CrMnFeCoNi high-entropy alloy revealed by elevated temperature nanoindentation. <i>Journal of Materials Research</i> , 2017 , 32, 2658-2667	2.5	32
313	On the origin of acoustic emission during room temperature compressive deformation of a TiAl based alloy. <i>Intermetallics</i> , 2000 , 8, 823-830	3.5	32
312	Interplay between effect of Mo and chemical disorder on the stability of β -TiAl phase. <i>Intermetallics</i> , 2015 , 61, 85-90	3.5	31
311	The Contribution of High-Energy X-Rays and Neutrons to Characterization and Development of Intermetallic Titanium Aluminides. <i>Advanced Engineering Materials</i> , 2011 , 13, 685-699	3.5	31
310	Textural Evolution During Dynamic Recovery and Static Recrystallization of Molybdenum. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 4794-4805 ²⁻³	2.3	30
309	Deformation mechanisms in micron-sized PST TiAl compression samples: Experiment and model. <i>Acta Materialia</i> , 2011 , 59, 3410-3421	8.4	30
308	Precipitation Behaviour of a Complex Steel. <i>Advanced Engineering Materials</i> , 2006 , 8, 1066-1077	3.5	30
307	Fatigue threshold and crack propagation in TiAl sheets. <i>Intermetallics</i> , 2001 , 9, 89-96	3.5	30
306	Phase transformations in a solidifying TiAl based alloy during rapid solidification. <i>Intermetallics</i> , 2017 , 91, 100-109	3.5	29
305	In Situ Diffraction Experiments for the Investigation of Phase Fractions and Ordering Temperatures in Ti-44 at% Al-(3-7) at% Mo Alloys. <i>Advanced Engineering Materials</i> , 2011 , 13, 306-311	3.5	29
304	Precipitation twinning. <i>Acta Materialia</i> , 2007 , 55, 4915-4923	8.4	29
303	Characterization of Ti ₂ 48Al ₂ Cr sheet material. <i>Intermetallics</i> , 1994 , 2, 179-184	3.5	29
302	How grain boundary chemistry controls the fracture mode of molybdenum. <i>Materials and Design</i> , 2018 , 142, 36-43	8.1	28
301	Creep behavior of TiAl sheet material with differently spaced fully lamellar microstructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 840-846	5.3	28
300	An energy approach to the formation of twins in TiAl. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003 , 34, 2827-2836	2.3	28
299	Lattice and phase strain evolution during tensile loading of an intermetallic, multi-phase TiAl based alloy. <i>Acta Materialia</i> , 2018 , 158, 193-205	8.4	27
298	Magneto-optical investigation of PbTe/Pb _{1-x} Sn _x Te superlattices. <i>Superlattices and Microstructures</i> , 1985 , 1, 1-9	2.8	27

297	Influence of the heating rate on the recrystallization behavior of molybdenum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012 , 535, 316-324	5.3	26
296	The influence of spin-misalignment scattering on the SANS data evaluation of martensitic age-hardening steels. <i>Acta Materialia</i> , 2007 , 55, 2637-2646	8.4	26
295	Analysis of the precipitation behaviour in a high-speed steel by means of small-angle neutron scattering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 398, 323-331	5.3	26
294	On the influence of coating and oxidation on the mechanical properties of a TiAl based alloy. <i>Intermetallics</i> , 2008 , 16, 1206-1211	3.5	25
293	Characterization of residual stresses in turbine discs by neutron and high-energy X-ray diffraction and comparison to finite element modeling. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 437, 75-82	5.3	25
292	Internal friction of TiAl alloys at high temperature. <i>Journal of Alloys and Compounds</i> , 2000 , 310, 134-138	5.7	25
291	Interfaces in nanostructured thin films and their influence on hardness. <i>International Journal of Materials Research</i> , 2005 , 96, 468-480		24
290	Processing, Properties and Applications of Gamma Titanium Aluminide Sheet and Foil Materials. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 460, 29		24
289	Microstructure and Texture Formation during Hot Rolling of Niobium-Rich TiAl Alloys with Different Carbon Contents. <i>Advanced Engineering Materials</i> , 2006 , 8, 1101-1108	3.5	23
288	In Situ Characterization Techniques Based on Synchrotron Radiation and Neutrons Applied for the Development of an Engineering Intermetallic Titanium Aluminide Alloy. <i>Metals</i> , 2016 , 6, 10	2.3	23
287	Design and control of microstructure and texture by thermomechanical processing of a multi-phase TiAl alloy. <i>Materials and Design</i> , 2017 , 131, 286-296	8.1	22
286	Influence of process parameter variation during thermo-mechanical processing of an intermetallic stabilized TiAl based alloy. <i>Materials Characterization</i> , 2015 , 109, 116-121	3.9	22
285	Atomic relaxation processes in an intermetallic Ti ₄₃ Al ₄₉ Nb ₈ Mo _{0.1} B alloy studied by mechanical spectroscopy. <i>Acta Materialia</i> , 2014 , 65, 338-350	8.4	22
284	Directional Atomic Rearrangements During Transformations Between the β and β' Phases in Titanium Aluminides. <i>Advanced Engineering Materials</i> , 2008 , 10, 389-392	3.5	22
283	Characteristics of an optimized active metal cast joint between copper and C/C. <i>Physica Scripta</i> , 2007 , T128, 200-203	2.6	22
282	Growth and characterization of PbTe epitaxial films grown by hot-wall epitaxy. <i>Journal of Crystal Growth</i> , 1984 , 66, 251-256	1.6	22
281	Orientation dependent recovery and recrystallization behavior of hot-rolled molybdenum. <i>International Journal of Refractory Metals and Hard Materials</i> , 2015 , 48, 179-186	4.1	21
280	Study of nanometer-scaled lamellar microstructure in a Ti ₄₅ Al _{47.5} Nb alloy [Experiments and modeling. <i>Intermetallics</i> , 2010 , 18, 509-517	3.5	21

279	Precipitation behavior of intermetallic NiAl particles in Fe-6 at.%Al-4 at.%Ni analyzed by SANS and 3DAP. <i>Intermetallics</i> , 2010 , 18, 1553-1559	3.5	21
278	The high-temperature damping background in intermetallic alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 442, 138-141	5.3	21
277	Anomalous transport in PbTe doping superlattices. <i>Applied Physics Letters</i> , 1985 , 47, 738-740	3.4	21
276	Influence of Heat Treatments on the Microstructure of a Multi-Phase Titanium Aluminide Alloy. <i>Praktische Metallographie/Practical Metallography</i> , 2012 , 49, 124-137	0.3	21
275	Designing advanced intermetallic titanium aluminide alloys for additive manufacturing. <i>Intermetallics</i> , 2021 , 131, 107109	3.5	21
274	Induction Tempering vs Conventional Tempering of a Heat-Treatable Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016 , 47, 3694-3702	2.3	21
273	In situ small-angle X-ray scattering study of the perovskite-type carbide precipitation behavior in a carbon-containing intermetallic TiAl alloy using synchrotron radiation. <i>Acta Materialia</i> , 2014 , 77, 360-369	8.4	20
272	Precipitation behaviour of an FeCoMo-alloy during non-isothermal ageing. <i>International Journal of Materials Research</i> , 2008 , 99, 367-374	0.5	20
271	Determination of the diffusion coefficient of hydrogen in gamma titanium aluminides during electrolytic charging. <i>Acta Materialia</i> , 2000 , 48, 1005-1019	8.4	20
270	Advanced Intermetallic TiAl Alloys. <i>Materials Science Forum</i> , 2016 , 879, 113-118	0.4	19
269	Internal friction of TiAl-based alloys with different microstructures. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 370, 234-239	5.3	19
268	On the evolution of secondary hardening carbides during continuous versus isothermal heat treatment of high speed steel HS 6-5-2. <i>Materials Characterization</i> , 2016 , 120, 323-330	3.9	19
267	On the development of grain growth resistant tantalum alloys. <i>International Journal of Refractory Metals and Hard Materials</i> , 2006 , 24, 437-444	4.1	18
266	On the role of twinning during room temperature deformation of TiAl based alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002 , 329-331, 177-183	5.3	18
265	Phase stability of a TiAl based alloy upon annealing: comparison between experiment and thermodynamic calculations. <i>Scripta Materialia</i> , 2003 , 49, 279-284	5.6	18
264	Combining complementary techniques to study precipitates in steels. <i>International Journal of Materials Research</i> , 2005 , 96, 1074-1080		18
263	Characterization of controlled microstructures in a TiAl(Cr, Mo, Si, B) alloy. <i>Intermetallics</i> , 1999 , 7, 1081-1087	3.9	18
262	Electron Beam Melting of a Solidifying Intermetallic Titanium Aluminide Alloy. <i>Advanced Engineering Materials</i> , 2019 , 21, 1900800	3.5	17

261	On the overaging behaviour of tool steel X38 CrMoV 5-3. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 472, 148-156	5.3	17
260	Forming 2002 , 617-642		17
259	Physical metallurgy of high Nb-containing TiAl alloys. <i>International Journal of Materials Research</i> , 2004 , 95, 585-591		17
258	Spin resonant optical four wave mixing in Pb _{1-x} Sn _x TTe epitaxial layers and in Pb _{1-x} Sn _x /PbTe superlattices. <i>Solid State Communications</i> , 1985 , 55, 765-768	1.6	17
257	In situ and atomic-scale investigations of the early stages of β precipitate growth in a supersaturated intermetallic Ti-44Al-7Mo (at.%) solid solution. <i>Acta Materialia</i> , 2019 , 164, 110-121	8.4	17
256	Microstructural evolution and grain refinement in an intermetallic titanium aluminide alloy with a high molybdenum content. <i>International Journal of Materials Research</i> , 2015 , 106, 725-731	0.5	16
255	Spinodal decomposition in Fe-25 at%Co-9 at%Mo. <i>Intermetallics</i> , 2010 , 18, 2128-2135	3.5	16
254	SANS investigation of precipitation hardening of two-phase β TiAl alloys. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 74, s1163-s1165	2.6	16
253	Tensile properties and strain rate sensitivity of Ti-47Al-2Cr-0.2Si sheet material with different microstructures. <i>Scripta Materialia</i> , 1996 , 35, 429-434	5.6	16
252	Epitaxial growth of PbTe on (111)BaF ₂ and (100)GaAs. <i>Superlattices and Microstructures</i> , 1988 , 4, 591-596	6.8	16
251	On the chemistry of the carbides in a molybdenum base Mo-Hf-C alloy produced by powder metallurgy. <i>Journal of Alloys and Compounds</i> , 2016 , 654, 445-454	5.7	15
250	Interdiffusion in Pb _{1-x} EuxSe/PbSe multi-quantum-well structures. <i>Journal of Crystal Growth</i> , 1991 , 113, 593-598	1.6	15
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